

Specification

A resin-forming mold and a method for producing such a resin-forming mold



The present application is a national stage application of International Application No. PCT/JP04/06437, filed on May 13, 2004, which published as WO 04/101248 on November 25, 2004, and claims priority to Japanese Application No. 02/09727, filed on May 13, 2003, the entire contents of which are hereby incorporated by reference.

[Technical Field]

[0001]

The present invention relates to a resin-forming mold for use in forming finely uneven portions on a surface of a molding resin as well as to a method for producing the same. Particularly, the invention is favorably used for the production of light guides for surface light source devices.

[Background art]

[0002]

A stamper 1 as shown in Fig. 7 is formerly known for producing resin-molded products having finely uneven portions on their surfaces, for example, light guides for the surface light source devices of liquid crystal displays, aspheric micro-lenses, micro-Fresnel lenses, optical disks, etc.

[0003]

This stamper 1 comprises a nickel-electroformed layer 1a and a metal electroconductive film 1b formed on the nickel-electroformed layer 1a.

[0004]

In order to produce such a stamper 1, a master plate 2 is used, which comprises a glass substrate 2a and a photoresist film 2b formed on the glass substrate 2a and having a minute uneven pattern. That is, an electroconductive film 1b of nickel is formed on a